

SAFETY DATA SHEET



Date issued : 11/05/2013
 SDS number : CHALLENGE 95
 Date revised : 06/03/2022
 Revision number : 3

CHALLENGE 95

1. Identification

Product identifier: CHALLENGE 95
Relevant identified uses: Release agent

Manufacturer / Supplier

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Emergency Phone: (714) 734-8450

Emergency telephone number (24 hour)

CHEMTREC (USA & Canada): (800) 424-9300
 or (703) 527-3887 CCN# 2820

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Reproductive Toxicity, Category 2
 Target Organ Toxicity (Single exposure), Category 3
 Target Organ Toxicity (Repeated exposure), Category 1
 Aspiration Hazard, Category 1

Environmental hazards:

Chronic Hazards to the Aquatic Environment, Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements



Flame



Health hazard



Exclamation
mark



Environment

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H361: Suspected of damaging fertility or the unborn child.
 H336: May cause drowsiness or dizziness.
 H372: Causes damage to organs through prolonged or repeated exposure.
 H304: May be fatal if swallowed and enters airways.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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- P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/material-handling equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P273: Avoid release to the environment.

Response:

- P370+P378: In case of fire: Use water spray, carbon dioxide, dry chemical, or foam for extinction.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
 P331: Do NOT induce vomiting.
 P308+P313: IF exposed or concerned: Get medical advice/ attention.
 P391: Collect spillage.

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P235: Keep cool.
 P405: Store locked up.

Disposal:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Toluene	40 - 80	108-88-3
Solvent naphtha (petroleum), light aromatic	15 - 20	64742-95-6
Propan-2-ol	5 - 20	67-63-0
1,2,4-Trimethylbenzene	5 - 10	95-63-6
Stoddard solvent	5 - 10	8052-41-3
Xylene	0.1 - 1	1330-20-7

4. First-aid measures

- Eye:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical advice/attention.
- Skin:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical advice/attention if irritation or rash develops. Wash clothing before reuse.
- Ingestion:** If swallowed, Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Inhalation:** Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.
- Indication of immediate medical attention and special treatment needed, if necessary:** Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

CHALLENGE 95**5. Fire-fighting measures**

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, or foam.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Explosion hazards: Vapors are flammable and heavier than air. Vapors may travel along the ground and reach remote ignition sources causing a flashback fire danger.

Fire fighting procedures: Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

Fire fighting equipment: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

Sensitivity to static discharge: This material can accumulate static charges which can cause an incendiary electrical discharge.

6. Accidental release measures

Small spill: Evacuate unnecessary personnel from the spill area. Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Eliminate all sources of ignition. Ensure adequate ventilation. Dike and contain spill. Prevent product from entering drains or waterways. Absorb with non-combustible material (such as sand, earth, diatomaceous earth, or vermiculite) and transfer to a container for disposal according to local/national regulations.

Environmental precautions

Water spill: Do not discharge into drains, surface waters, or groundwater.

General procedures: Refer to section 8 of SDS for personal protection details.

Release notes: Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

7. Handling and storage

General procedures: Keep away from sources of ignition. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

Precautions for safe handling: Use in a well ventilated area. Avoid heat, sparks, and open flames. Avoid breathing vapor and contact with eyes, skin, and clothing. Use appropriate personal protective equipment as specified in Section 8. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

Conditions for safe storage: Store in a dry and well-ventilated place, away from excessive heat in the original or similar container. Avoid sources of ignition and incompatible materials. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Avoid unnecessary contact.

Storage temperature: 65-80°F (18-27°C)

Shelf life: 12 months from date of shipment under manufacturers recommended storage conditions.

Electrostatic accumulation hazard: This material can accumulate static charges which can cause an incendiary electrical discharge. Use proper bonding and/or grounding procedures.

8. Exposure controls/personal protection

CHALLENGE 95**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
Toluene	OSHA PEL	TWA	200	-
		STEL	-	-
		C	300	-
	ACGIH TLV	TWA	-	-
		STEL	-	-
	NIOSH REL	TWA	100	375
STEL		150	560	
Propan-2-ol	OSHA PEL	TWA	400	980
		STEL	-	-
	ACGIH TLV	TWA	200	-
		STEL	400	-
	NIOSH REL	TWA	400	980
		STEL	500	1225
1,2,4-Trimethylbenzene	OSHA PEL	TWA	-	-
		STEL	-	-
	ACGIH TLV	TWA	25	123
		STEL	-	-
	NIOSH REL	TWA	25	125
		STEL	-	-
Stoddard solvent	OSHA PEL	TWA	500	2900
		STEL	-	-
	ACGIH TLV	TWA	100	-
		STEL	-	-
	NIOSH REL	TWA	-	350
		STEL	-	-
C		- ^[1]	2900 ^[1]	
Xylene	OSHA PEL	TWA	100	435
		STEL	-	-
	ACGIH TLV	TWA	100	-
		STEL	150	-
	NIOSH REL	TWA	100	435
		STEL	150	655

Footnotes:

1. 15-minute

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

CHALLENGE 95**Individual protection measures, such as personal protective equipment**

Eye / face protection: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

Skin protection - hand protection: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

Respiratory protection: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Skin protection - other: Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

Occupational hygiene practices: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

Other use precautions: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. Physical and chemical properties

Physical state: Liquid

Color: Yellow

Odor: Solvent

pH: Not Applicable

Initial boiling point and boiling range: No data available

Flash point: 4°C (39.2°F) Closed Cup (Toluene)

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: 0.87 (water=1) at 25°C (77°F)

Solubility: Negligible

Viscosity: No data available

VOC content: 783 to 827 g/l Calculated. Theoretical VOC minus water and exempt solvents.

10. Stability and reactivity

Reactivity: Hazardous reactions will not occur under normal transport or storage conditions.

Chemical stability: This product is stable under the recommended storage conditions.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Possibility of hazardous reactions: No data available

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

Incompatible materials: Strong acids, strong bases, and strong oxidizing agents.

11. Toxicological information

Acute toxicity

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Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Toluene	> 5580 mg/kg Rat	12124 mg/kg Rabbit	25.7 mg/l Rat (4 h)
Solvent naphtha (petroleum), light aromatic	> 3492 mg/kg Rat	> 3160 mg/kg Rabbit	> 6193 mg/m ³ Rat (4 h)
Propan-2-ol	5045 mg/kg Rat	12800 mg/kg Rabbit	37.5 mg/l Rat (4 h)
1,2,4-Trimethylbenzene	> 3440 mg/kg Rat	No data available	18 mg/l Rat (4 h)
Stoddard solvent	> 5000 mg/kg Rat	> 3000 mg/kg Rabbit	5500 mg/m ³ Rat (4 h)
Xylene	3523 mg/kg Rat	12126 mg/kg Rabbit	5000 ppm Rat (4 h)

Skin corrosion / irritation: Causes skin irritation.

Serious eye damage / irritation: Causes serious eye irritation.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

Chemical name	IARC
Toluene	3
Propan-2-ol	3
Xylene	3

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - single exposure: May cause drowsiness or dizziness.

Specific Target Organ Toxicity - repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicological information: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Other adverse effects: This product may cause risk of hazardous effects to the environment.

Mobility in soil: No data available

13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty container: Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

14. Transport information**USA Department of Transport Regulations (DOT)**

UN proper shipping name: Flammable liquids, n.o.s.

Technical name: (toluene, mineral spirits)

Transport hazard class(es): 3

UN number: UN1993

CHALLENGE 95**Packing group, if applicable:** II**NAERG:** 128**Hazard label:** Flammable liquid**ICAO / IATA - air****UN proper shipping name:** Flammable liquid, n.o.s.**Technical name:** (toluene, mineral spirits)**UN number:** UN1993**Transport hazard class(es):** 3**Packing group, if applicable:** II**ERG:** 3H**Hazard label:** Flammable liquid**IMO / IMDG - sea****UN proper shipping name:** Flammable liquid, n.o.s.**Technical name:** (toluene, mineral spirits)**UN number:** UN1993**Transport hazard class(es):** 3**Packing group, if applicable:** II**Hazard label:** Flammable liquid**Special provisions:** EmS: F-E, S-E**Canadian Transport of Dangerous Goods Regulations (TDG)****UN proper shipping name:** Flammable liquids, n.o.s.**Technical name:** (toluene, mineral spirits)**UN number:** 1993**Transport hazard class(es):** 3**Packing group, if applicable:** II**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories****311/312 Health hazards:** Refer to Section 2 for hazard classification.**313 reportable ingredients:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:**EPCRA Section 313 Toxic Chemicals**

Chemical name	% w/w	CAS No.
Toluene	40 - 80	108-88-3
Propan-2-ol	5 - 20	67-63-0
1,2,4-Trimethylbenzene	5 - 10	95-63-6

CERCLA Hazardous Substances and Reportable Quantities (RQ)**CERCLA regulatory:** This product contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	% w/w	CERCLA rq
Toluene	40 - 80	1,000 lbs.
Xylene	0.1 - 1	100 lbs.
Ethylbenzene	< 0.05	1,000 lbs.


CHALLENGE 95**TSCA (The Toxic Substances Control Act)**

TSCA regulatory: This product does not contain any substances subject to TSCA Section 12(b) export notification.

TSCA Status: This product or its components are listed in or exempt from the TSCA inventory requirements.

Occupational safety and health administration (osha)

29 cfr1910.119--process safety management of highly hazardous chemicals: None of the chemicals in this product are considered highly hazardous by OSHA.

California Proposition 65:  **WARNING:** This product can expose you to chemicals including [see table below], which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemical name	% w/w	Listed
Toluene	40 - 80	● Developmental Toxicity
Ethylbenzene	< 0.05	● Cancer

USA OSHA Hazard Communication Standard (29CFR 1910.1200): The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS Regulatory Status: This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL): All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

16. Other information

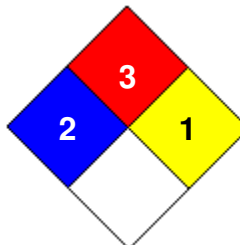
Reason for issue: Revision

Date revised: 06/03/2022

Revision summary: This SDS replaces the 01/23/2019 SDS.

HMIS rating

Health	*	2
Flammability		3
Physical hazard		1
Personal protection	X	

NFPA codes

HMIS ratings notes: Personal Protection: See Section 8

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